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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Madison et al.

Serial No.: 09/776,191

Filed: February 2, 2001

For: **NUCLEIC ACID MOLECULES ENCODING
TRANSMEMBRANE SERINE PROTEASES,
THE ENCODED PROTEINS AND METHODS
BASED THEREON**

Art Unit: 1614

Examiner: Unassigned

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TRANSMITTAL LETTER

Commissioner for Patents
Washington, D.C. 20231

Sir:

Transmitted herewith is an Information Disclosure Statement, Forms PTO-1449 (15 pages), and the cited references for filing in connection with the above-identified application. Because this Information Disclosure Statement is filed prior to receipt of a First Office Action on the merits in the above-referenced application, no fee is due. However, should it be determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 50-1213, as stated below:

(X) The Commissioner is hereby authorized to charge any fees that may be due under 37 C.F.R. §§1.16-1.17 in connection with this paper or with this application during its entire pendency to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

Respectfully submitted,
HELLER EHRMAN WHITE & MCAULIFFE LLP

By: 
Stephanie L. Seidman
Registration No. 33,779

Dated: September 6, 2001
Attorney Docket No.: 24745-1607
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**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT IN ACCORDANCE
WITH 37 C.F.R. §§ 1.97-1.98**

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Since this Supplemental Information Disclosure Statement is filed before the receipt of a first Office Action on the merits for the above-captioned application, no filing fee is due. If it is determined that a fee is due, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-1213.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. The Forms PTO-1449 (15 pages) and cited reference are provided herewith.

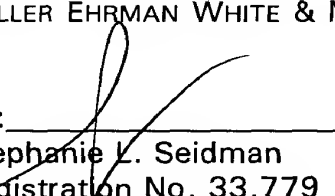
U.S.S.N. 09/776,191
MADISON, *et al.*
Supplemental IDS

The documents listed on the Forms PTO-1449 and supplied herewith are in the English language. Hence, in accordance with the requirements of 37 C.F.R. §1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

Applicant respectfully requests that the Examiner review the foregoing reference and it be made of record in the file history of the above-captioned application.

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FORM PTO-1449 (Rev. 7-2001)

LIST OF PATENTS AND PUBLICATIONS FOR
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	AA	3	5	3	6	8	0	9	10/27/70	Applezweig	424	28	02/17/69
	AB	3	5	9	8	1	2	3	08/10/71	Zaffaroni	128	268	04/01/69
	AC	3	6	3	0	2	0	0	12/28/71	Higuchi	128	260	06/09/69
	AD	3	8	4	3	4	4	3	10/22/74	Fishman	195	63	03/30/73
	AE	3	8	4	5	7	7	0	11/05/74	Theeuwes et al.	128	260	06/05/72
	AF	3	9	1	6	8	9	9	11/04/75	Theeuwes et al.	128	260	02/07/74
	AG	3	9	4	0	4	7	5	02/24/76	Gross	424	1	07/07/71
	AH	4	0	0	6	1	1	7	02/01/77	Merrifield et al.	260	45.9 NP	06/06/75
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	AK	4	5	2	2	8	1	1	06/11/85	Eppstein et al.	514	2	07/08/82
	AL	4	6	4	0	8	3	5	02/03/87	Shimizu et al.	424	94	10/28/83
	AM	4	6	8	7	6	1	0	08/18/87	Vassilatos	264	211.14	04/30/86
	AN	4	7	6	9	0	2	7	09/06/88	Baker et al.	424	493	02/24/87
	AO	4	9	0	8	4	0	5	03/13/90	Bayer et al.	525	61	01/02/86
	AP	4	9	4	6	7	7	8	08/07/90	Ladner et al.	435	69.6	01/19/89
	AQ	5	0	5	9	5	9	5	10/22/91	Le Grazie	424	468	03/20/90
	AR	5	0	7	3	5	4	3	12/17/91	Marshall et al.	514	21	07/21/88
	AS	5	1	2	0	5	4	8	06/09/92	McClelland et al.	424	473	11/07/89
	AT	5	2	9	2	8	1	4	03/08/94	Bayer et al.	525	243	03/14/91
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	AV	5	3	8	9	4	4	9	02/14/95	Afeyan et al.	428	523	01/05/93
	AW	5	5	9	1	7	6	7	01/07/97	Mohr et al.	514	413	06/06/95

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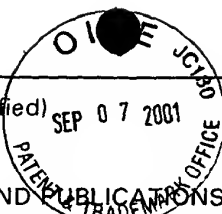
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	AX	5	5	9	3	9	9	0	01/14/97	D'Amato	514	235.2	01/13/95
	AY	5	6	2	9	3	2	7	05/13/97	D'Amato	514	323	12/15/93
	AZ	5	6	3	9	4	7	6	06/17/97	Oshlack et al.	424	468	06/02/95
	BA	5	6	7	4	5	3	3	10/07/97	Santus et al.	424	493	05/26/95
	BB	5	7	1	2	2	9	1	01/27/98	D'Amato	514	323	06/06/95
	BC	5	7	3	3	5	6	6	03/31/98	Lewis	424	426	10/30/95
	BD	5	9	0	2	7	2	3	05/11/99	Dower et al.	435	6	07/12/96
	BE	5	9	2	5	5	2	5	07/20/99	Fodor et al.	435	6	04/03/98

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							PUB. DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No	
	BF	0	0	5	0	0	6	1	31/08/00	PCT				
	BG	0	6	1	3	6	8	3	07/09/94	EP A1				
	BH	0	6	1	3	6	8	3	07/09/94	EP B1				
	BI	8	6	0	3	8	4	0	03/07/86	PCT				
	BJ	9	2	0	6	1	8	0	16/04/92	PCT				
	BK	9	3	2	5	2	2	1	23/12/93	PCT				
	BL	9	4	1	7	7	8	4	18/08/94	PCT				
	BM	9	9	4	2	1	2	0	26/08/99	PCT				

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BN	Abraham et al., "Immunochemical Identification of the Serine Protease Inhibitor α_1 -Antichymotrypsin in the Brain Amyloid Deposits of Alzheimer's Disease", <i>Cell</i> , 52:487-501 (1988)
BO	Adams et al., "The c-myc oncogene driven by immunoglobulin enhancers induces lymphoid malignancy in transgenic mice", <i>Nature</i> , 318:533-538 (1985)

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BP	Alexander <i>et al.</i> , "Expression of the <i>c-myc</i> Oncogene under Control of an Immunoglobulin Enhancer in <i>Eμ-myc</i> Transgenic Mice", <i>Mol. Cell Biol.</i> , <u>7</u> (4):1436-1444 (1987)
BQ	Auerbach <i>et al.</i> , "Angiogenesis Inhibition: A Review", <i>Pharmacol. Ther.</i> , <u>63</u> (3):265-311 (1994)
BR	Baker <i>et al.</i> , "A Scintillation Proximity Assay for UDP-GalNAc:Polypeptide, <i>N</i> -Acetylgalactosaminyltransferase", <i>Anal. Biochem.</i> , <u>239</u> :20-24 (1996)
BS	Bannwarth <i>et al.</i> , "Global Phosphorylation Of Peptides Containing Oxidation-Sensitive Amino Acids", <i>Bioorganic & Medicinal Chem. Lett.</i> , <u>6</u> (17):2141-2146 (1996)
BT	Bartel <i>et al.</i> , "Isolation of New Ribozymes from a Large Pool of Random Sequences", <i>Science</i> , <u>261</u> :1411-1418 (1993)
BU	Baumbach <i>et al.</i> , "Protein Purification Using Affinity Ligands Deduced from Peptide Libraries", <i>BioPharm.</i> , May ed., 24-35 (1992)
BV	Benton <i>et al.</i> , "Screening λ gt Recombinant Clones by Hybridization to Single Plaques in situ", <i>Science</i> , <u>196</u> :180-182 (1977)
BW	Berg <i>et al.</i> , "Long-Chain Polystyrene-Grafted Polyethylene Film Matrix: A New Support for Solid-Phase Peptide Synthesis", <i>J. Am. Chem. Soc.</i> , <u>111</u> :8024-8026 (1989)
BX	Berg <i>et al.</i> , Book: "Peptide Synthesis on Polystyrene-Grafted Polyethylene Sheets", <i>Pept. Proc. 20th Eur. Pept. Symp.</i> , Jung, G. et al., Eds, p.p. 196-198 (1988)
BY	Berg <i>et al.</i> , Book: "Polystyrene-Grafted Polyethylene: Design of Film and Felt Matrices for Solid-Phase Peptide Synthesis", <i>Innovation Perspect. Solid Phase Synth. Collect. Pap.</i> , Int. Symp., 1st Epton, Roger, Ed., p.p. 453-459 (1990)
BZ	Blaney <i>et al.</i> , "Computational approaches for combinatorial library design and molecular diversity analysis", <i>Curr. Opin. Chem. Biol.</i> , <u>1</u> :54-59 (1997)
CA	Bock <i>et al.</i> , "Selection of single-stranded DNA molecules that bind and inhibit human thrombin", <i>Nature</i> , <u>355</u> :564-566 (1992)
CB	Boehm <i>et al.</i> , "The rhombotin family of cysteine-rich LIM-domain oncogenes: Distinct members are involved in T-cell translocations to human chromosomes 11p15 and 11p13", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>88</u> :4367-4371 (1991)
CC	Boesen <i>et al.</i> , "Circumvention of chemotherapy-induced myelosuppression by transfer of the <i>mdr1</i> gene", <i>Biotherapy</i> , <u>6</u> :291-302 (1994)

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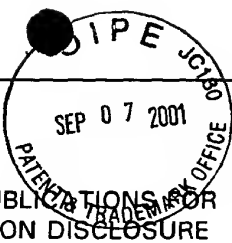
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CD	Borman, S., "Scientists Refine Understanding Of Protein Folding And Design", <i>Chem. Eng. News</i> , <u>2(12)</u> :29-35 (1996)
CE	Boublik <i>et al.</i> , "Eukaryotic Virus Display: Engineering the Major Surface Glycoprotein of the <i>Autographa californica</i> Nuclear Polyhedrosis Virus (AcNPV) for the Presentation of Foreign Proteins on the Virus Surface", <i>Bio/Technol.</i> , <u>13</u> :1079-1084 (1995)
CF	Brenner <i>et al.</i> , "Encoded combinatorial chemistry", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>89</u> :5381-5383 (1992)
CG	Bunin <i>et al.</i> , "A General and Expedient Method for the Solid-Phase Synthesis of 1,4-Benzodiazepine Derivatives", <i>J. Am. Chem. Soc.</i> , <u>114</u> :10997-10998 (1992)
CH	Bunin <i>et al.</i> , "The combinatorial synthesis and chemical and biological evaluation of a 1,4-benzodiazepine library", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>91</u> :4708-4712 (1994)
CI	<u>Burger's Medicinal Chemistry and Drug Discovery</u> , Book: Volume 1: "Principles and Practice", Wolff, M.E., Ed., John Wiley & Sons, Inc. (1995)
CJ	Butz <i>et al.</i> , "Immunization and Affinity Purification of Antibodies Using Resin-Immobilized Lysine-Branched Synthetic Peptides", <i>Peptide Res.</i> , <u>7(1)</u> :20-23 (1994)
CK	Cafilisch <i>et al.</i> , "Computational combinatorial chemistry for de novo ligand design: Review and assessment", <i>Perspectives in Drug Discovery and Design</i> , <u>3</u> :51-84 (1995)
CL	Chen <i>et al.</i> , " "Analogous" Organic Synthesis of Small-Compound Libraries: Validation of Combinatorial Chemistry in Small-Molecule Synthesis", <i>J. Am. Chem. Soc.</i> , <u>116</u> :2661-2662 (1994)
CM	Cheng <i>et al.</i> , "Sequence-Selective Peptide Binding with a Peptido-A,B- <i>trans</i> -steroidal Receptor Selected from an Encoded Combinatorial Receptor Library", <i>J. Am. Chem. Soc.</i> , <u>118</u> :1813-1814 (1996)
CN	Chu <i>et al.</i> , "Using Affinity Capillary Electrophoresis To Identify the Peptide in a Peptide Library that Binds Most Tightly to Vancomycin", <i>J. Org. Chem.</i> , <u>58</u> :648-652 (1993)
CO	Clackson <i>et al.</i> , "Making antibody fragments using phage display libraries", <i>Nature</i> , <u>352</u> :624-628 (1991)
CP	<u>Combinatorial Libraries</u> , Book: "Synthesis, Screening and Application Potential", Cortese, R., Ed., Water de Gruyter, New York (1996)
CQ	Combs <i>et al.</i> , "Protein Structure-Based Combinatorial Chemistry: Discovery of Non-Peptide Binding Elements to Src SH3 Domain", <i>J. Am. Chem. Soc.</i> , <u>118</u> :287-288 (1996)

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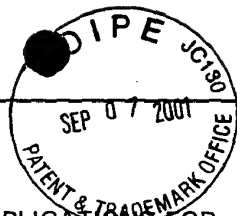
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CR	<u>Current Protocols in Molecular Biology</u> , Book: Volume 1, Supplement 47, John Wiley & Sons, Inc. (1990)
CS	Database: Derwent# XP-002169836 WPI Acc. No. 1997-357902/33 (citing Japanese Application No. JP09149790-A, published June 10, 1997)
CT	De Boer <i>et al.</i> , "The <i>tac</i> promoter: A functional hybrid derived from the <i>trp</i> and <i>lac</i> promoters", <i>Proc. Natl. Acad. Sci. USA</i> , <u>80</u> :21-25 (1983)
CU	Desai <i>et al.</i> , "Tumor Angiogenesis and Endothelial Cell Modulatory Factors", <i>J. Immunol.</i> , <u>22(3)</u> :186-211 (1999)
CV	Devlin <i>et al.</i> , "Random Peptide Libraries: A Source of Specific Protein "Binding Molecules", <i>Science</i> , <u>249</u> :404-406 (1990)
CW	DeWitt <i>et al.</i> , " "Diversomers:: An approach to nonpeptide, nonoligomeric chemical diversity", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>90</u> :6909-6913 (1993)
CX	Dexter <i>et al.</i> , "Conditions Controlling the proliferation of Haemopoietic Stem Cells In Vitro", <i>J. Cell. Physiol.</i> , <u>91</u> :335-344 (1976)
CY	<u>DNA cloning</u> , Book: "A practical approach", Volume I, Glover, D.M., Ed., MRL Press Ltd., Oxford, Washington DC (1985)
CZ	<u>Immobilized Biochemicals And Affinity Chromatography</u> , Book: Dunlap, R.B., Ed., Plenum Press, New York (1974)
DA	Ecker <i>et al.</i> , "Combinatorial Drug Discovery: Which Methods Will Produce the Greatest Value?", <i>Bio/Technol.</i> , <u>13</u> :351-360 (1995)
DB	Eichler <i>et al.</i> , "Identification of Substrate-Analog Trypsin Inhibitors through the Screening of Synthetic Peptide Combinatorial Libraries", <i>Biochem.</i> , <u>32</u> :11035-11041 (1993)
DC	Ellington <i>et al.</i> , "In vitro selection of RNA molecules that bind specific ligands", <i>Nature</i> , <u>346</u> :818-822 (1990)
DD	Erickson <i>et al.</i> , Book: <u>The Proteins</u> , "Solid-Phase Peptide Synthesis", Volume II, Neurath H., Hill, R.L. Eds., Academic Press, New York, p.p. 255-257 (1976)
DE	Felici, F., "Selection of Antibody Ligands from a Large Library of Oligopeptides Expressed on a Multivalent Exposition Vector", <i>J. Mol. Biol.</i> , <u>222</u> :301-310 (1991)
DF	Fodor <i>et al.</i> , "Light-Directed, Spatially Addressable Parallel Chemical Synthesis", <i>Science</i> , <u>251</u> :767-773 (1991)

EXAMINER

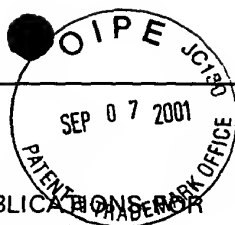
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DG	Francisco <i>et al.</i> , "Transport and anchoring of β -lactamase to the external surface of <i>Escherichia coli</i> ", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>89</u> :2713-2717 (1992)
DH	Gallop <i>et al.</i> , "Applications of Combinatorial Technologies to Drug Discovery. 1. Background and Peptide Combinatorial Libraries", <i>J. Med. Chem.</i> , <u>37</u> (9):1233-1251 (1994)
DI	Gardner <i>et al.</i> , "The complete nucleotide sequence of an infectious clone of cauliflower mosaic virus by M13mp7 shotgun sequencing", <i>Nucleic Acids. Res.</i> , <u>9</u> (12):2871-2889 (1981)
DJ	Georgiou <i>et al.</i> , "Practical applications of engineering Gram-negative bacterial cell surfaces", <i>TIBTECH</i> , <u>11</u> :6-10 (1993)
DK	Geysen <i>et al.</i> , "Use of peptide synthesis to probe viral antigens for epitopes to a resolution of a single amino acid", <i>Proc. Natl. Acad. Sci. USA</i> , <u>81</u> :3998-4002 (1984)
DL	Gilbert <i>et al.</i> , "Useful Proteins from Recombinant Bacteria", <i>Sci. Am.</i> , <u>242</u> :74-94 (1980)
DM	Glaser <i>et al.</i> , "Antibody Engineering by Condon-Based Mutagenesis in a Filamentous Phage Vector System", <i>J. Immunol.</i> , <u>149</u> (12):3903-3913 (1992)
DN	Gonzalez <i>et al.</i> , "Voltage Sensing by Fluorescence Resonance Energy Transfer in Single Cells", <i>Biophys. J.</i> , <u>69</u> :1272-1280 (1995)
DO	Gram <i>et al.</i> , "In vitro selection and affinity maturation of antibodies from a naive combinatorial immunoglobulin library", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>89</u> :3576-3580 (1992)
DP	Grunstein <i>et al.</i> , "Colony hybridization: A method for the isolation of cloned DNAs that contain a specific gene", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>72</u> (10):3961-3965 (1975)
DQ	Grosschedl <i>et al.</i> , "Introduction of a μ Immunoglobulin Gene into the Mouse Germ Line: Specific Expression in Lymphoid Cells and Synthesis of Functional Antibody", <i>Cell</i> , <u>38</u> :647-658 (1984)
DR	Hamdaoui <i>et al.</i> , "Purification of a Novel, Heat-Stable Serine Protease Inhibitor Protein from Ovaries of the Desert Locust, <i>Schistocerca gregaria</i> ", <i>Biochem. Biophys. Res. Commun.</i> , <u>238</u> (2):357-360 (1997)
DS	Hammer <i>et al.</i> , "Diversity of Alpha-Fetoprotein Gene Expression in Mice Is Generated by a Combination of Separate Enhancer Elements", <i>Science</i> , <u>235</u> :53-58 (1987)

EXAMINER

DATE CONSIDERED

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24745-1607

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APPLICANT
MADISON et al.

FILING DATE
February 2, 2001

GROUP
1614

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DT	Han <i>et al.</i> , "Liquid-Phase Combinatorial Synthesis", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>92</u> :6419-6423 (1995)
DU	Hanahan, D., "Heritable formation of pancreatic β -cell tumours in transgenic mice expressing recombinant insulin/simian virus 40 oncogenes", <i>Nature</i> , <u>315</u> :115-122 (1985)
DV	Herrera-Estrella <i>et al.</i> , "Expression of chimaeric genes transferred into plant cells using a Ti-plasmid-derived vector", <i>Nature</i> , <u>303</u> :209-213 (1984)
DW	Herrera-Estrella <i>et al.</i> , "Light-inducible and chloroplast-associated expression of a chimaeric gene introduced into <i>Nicotiana tabacum</i> using a Ti plasmid vector", <i>Nature</i> , <u>310</u> :115-120 (1984)
DX	Hoogenboom, <i>et al.</i> , "Multi-Subunit Proteins on the Surface of Filamentous Phage: Methodologies for Displaying Antibody (Fab) Heavy and Light Chains", <i>Nucleic Acids Res.</i> , <u>19</u> (15):4133-4137 (1991)
DY	Houghten <i>et al.</i> , "Generation and use of synthetic peptide combinatorial libraries for basic research and drug discovery", <i>Nature</i> , <u>354</u> :84-86 (1991)
DZ	Houghten, <i>et al.</i> , "General method for the rapid solid-phase synthesis of large numbers of peptides: specificity of antigen-antibody interaction at the level of individual amino acids", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>82</u> :5131-5135 (1985)
EA	Houghten <i>et al.</i> , "The Use of Synthetic Peptide Combinatorial Libraries for the Identification of Bioactive Peptides", <i>BioTechniques</i> , <u>313</u> :412-421 (1992)
EB	Houghten, <i>et al.</i> , "The Use Of Synthetic Peptide Combinatorial Libraries For The Determination Of Peptide Ligands In Radio-Receptor Assays-Opioid-Peptides", <i>Bioorg. Med. Chem. Lett.</i> , <u>3</u> (3):405-412 (1993)
EC	Hruby <i>et al.</i> , "Emerging approaches in the molecular design of receptor-selective peptide ligands: conformational, topographical and dynamic considerations", <i>Biochem J.</i> , <u>268</u> :249-262 (1990)
ED	Huang, <i>et al.</i> , "Discovery of new ligand binding pathways in myoglobin by random mutagenesis", <i>Nature Struct. Biol.</i> , <u>1</u> (4):226-229 (1994)
EE	Hunkapiller <i>et al.</i> , "A microchemical facility for the analysis and synthesis of genes and proteins", <i>Nature</i> , <u>310</u> :105-111 (1984)
EF	<u>Immobilized Enzymes, Antigens, Antibodies, and Peptides</u> , Preparation and Characterization, Weetall, H.H., Ed., Marcel Dekker, Inc., New York, (1975)

EXAMINER

DATE CONSIDERED

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	APPLICANT. MADISON et al.	
	FILING DATE February 2, 2001	GROUP 1614

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EG	IUPAC-IUB, "Commission on Biochemical Nomenclature Abbreviated Nomenclature of Synthetic Polypeptides (Polymerized Amino Acids)", <i>Biochem.</i> , <u>11</u> (5):942-944 (1972)
EH	Jackson <i>et al.</i> , "The codependence of angiogenesis and chronic inflammation", <i>FASEB</i> , <u>11</u> :457-465 (1997)
EI	Janda, K.D., "New Strategies for the Design of Catalytic Antibodies", <i>Biotechnol. Prog.</i> , <u>6</u> :178-181 (1990)
EJ	Jung <i>et al.</i> , "Multiple Peptide Synthesis Methods and Their Applications", <i>Angew. Chem. Int. Ed. Engl.</i> , <u>31</u> (4):367-486 (1992)
EK	Kang <i>et al.</i> , "Antibody redesign by chain shuffling from random combinatorial immunoglobulin libraries", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>88</u> :11120-11123 (1991)
EL	Kay <i>et al.</i> , "An M13 phage library displaying random 38-amino-acid-peptides as a source of novel sequences with affinity to selected targets genes", <i>Gene</i> , <u>128</u> :59-65 (1993)
EM	Kelsey <i>et al.</i> , "Species- and tissue-specific expression of human α_1 -antitrypsin in transgenic mice", <i>Genes and Devel.</i> , <u>1</u> :161-171 (1987)
EN	Kennedy <i>et al.</i> , "Immobilized Enzymes", Book: Volume 66, Chapter 7, <u>Solid Phase Biochemistry. Analytical and Synthetic Aspects</u> , John Wiley & Sons, Inc., New York, p.p., 253-391 (1993)
EO	Kitamoto <i>et al.</i> , "Enterokinase, the initiator of intestinal digestion, is a mosaic protease composed of a distinctive assortment of domains", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>91</u> :7588-7592 (1994)
EP	Kleine <i>et al.</i> , "Lipopeptide-Polyoxyethylene Conjugates as Mitogens and Adjuvants", <i>Immunobiol.</i> , <u>190</u> :53-66 (1994)
EQ	Kodo <i>et al.</i> , "Antibody Synthesis by Bone Marrow Cells In Vitro following Primary and Booster Tetanus Toxoid Immunization in Humans", <i>J. Clin. Invest.</i> , <u>73</u> :1377-1384 (1984)
ER	Kollias <i>et al.</i> , "Regulated Expression of Human α -, β -, and Hybrid $\gamma\beta$ -Globin Genes in Transgenic Mice: Manipulation of the Developmental Expression Patterns", <i>Cell</i> , <u>46</u> :89-94 (1986)
ES	Kozarsky <i>et al.</i> , "Gene therapy: adenovirus vectors", <i>Current Opinion in Genetics and Development</i> , <u>3</u> :499-503 (1993)
ET	Krumlauf <i>et al.</i> , "Developmental Regulation of α -Fetoprotein Genes in Transgenic Mice", <i>Mol. Cell. Biol.</i> , <u>5</u> (7):1639-1648 (1985)

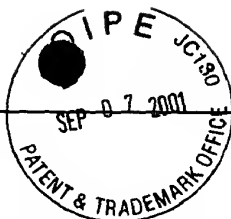
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MADISON et al.FILING DATE
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1614

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EU	Lam, K.S., "Application of combinatorial library methods in cancer research and drug discovery", <i>Anti-Cancer Drug Des.</i> , <u>12</u> :145-167 (1997)
EV	Lam <i>et al.</i> , A new type of synthetic peptide library for identifying ligand-binding activity, <i>Nature</i> , <u>354</u> :82-84 (1991); (published errata appear in <i>Nature</i> , <u>358</u> :434 (1992) and <i>Nature</i> , <u>360</u> :768 (1992))
EW	Lebl <i>et al.</i> , "One Bead One Structure Combinatorial Libraries", <i>Biopolymers (Pept. Sci.)</i> , <u>37</u> :177-198 (1995)
EX	Leder <i>et al.</i> , "Consequences of Widespread Deregulation of the c-myc Gene in Transgenic Mice: Multiple Neoplasms and Normal Development", <i>Cell</i> , <u>45</u> :485-495 (1986)
EY	Lee <i>et al.</i> , "Activation of Hepatocyte Growth Factor and Urokinase/Plasminogen Activator by Matrilysin, an Epithelial Membrane Serine Protease", <i>J. Biol. Chem.</i> , <u>275</u> (47):36720-36725 (2000)
EZ	Lerner <i>et al.</i> , "Antibodies without Immunization", <i>Science</i> , <u>258</u> :1313-1314 (1992)
FA	Li <i>et al.</i> , "Minimization of a Polypeptide Hormone", <i>Science</i> , <u>270</u> :1657-1660 (1995)
FB	Light <i>et al.</i> , "Phosphabs: Antibody-Phage-Alkaline Phosphatase Conjugates For One Step Elisa's Without Immunization", <i>Bioorg. Med. Chem. Lett.</i> , <u>2</u> (9):1073-1078 (1992)
FC	Lin <i>et al.</i> , "Molecular Cloning of cDNA for Matrilysin, a Matrix-degrading Serine Protease with Trypsin-like Activity", <i>J. Biol. Chem.</i> , <u>274</u> (26):18231-18236 (1999)
FD	Little <i>et al.</i> , "Bacterial surface presentation of proteins and peptides: an alternative to phage technology?", <i>Trends Biotechnol.</i> , <u>11</u> :3-5 (1993)
FE	MacDonald, R.J., "Expression of the Pancreatic Elastase I Gene in Transgenic Mice", <i>Hepatology</i> , Suppl. <u>7</u> (1):42S-51S (1987)
FF	Madison, J.E.L., "Substrate Specificity Of Tissue Type Plasminogen Activator", <i>Chem. Biol. of Serpins</i> , Plenum Press, New York, p.p. 109-1210 (1997)
FG	Magram <i>et al.</i> , "Developmental regulation of a cloned adult β -globin gene in transgenic mice", <i>Nature</i> , <u>315</u> :338-340 (1985)
FH	Marks <i>et al.</i> , "By-Passing Immunization. Human Antibodies from V-Gene Libraries Displayed on Phage", <i>J. Mol. Biol.</i> , <u>222</u> :581-597 (1991)
FI	Mason <i>et al.</i> , "The Hypogonadal Mouse, Reproductive Functions Restored by Gene Therapy", <i>Science</i> <u>234</u> :1372-1378 (1986)

EXAMINER

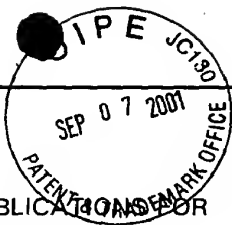
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FJ	Matthews <i>et al.</i> , "Substrate Phage: Selection of Protease Substrates by Monovalent Phage Display", <i>Science</i> , <u>260</u> :1113-1117 (1993)
FK	McCafferty <i>et al.</i> , "Phage Enzymes: Expression and Affinity Chromatography of Functional Alkaline Phosphatase on the Surface of Bacteriophage", <i>Protein Eng.</i> , <u>4(8)</u> :955-961 (1991)
FL	Menger <i>et al.</i> , "Phosphatase Catalysis Developed Via Combinatorial Organic Chemistry", <i>J. Org. Chem.</i> , <u>60</u> :6666-6667 (1995)
FM	Merrifield, R.B., "Solid Phase Peptide Synthesis. I. The Synthesis of a Tetrapeptide", <i>J. Am. Chem. Soc.</i> , <u>85</u> :2149-2154 (1963)
FN	Merrifield, R.B., "Solid Phase Peptide Synthesis. III. An Improved Synthesis of Bradykinin", <i>Biochemistry</i> , <u>3(9)</u> :1385-1390 (1964)
FO	Mignatti <i>et al.</i> , "Plasminogen Activators and matrix Metalloproteinases in Angiogenesis", <i>Enzyme Protein</i> , <u>49(1-3)</u> :117-137 (1996)
FP	Mitchell <i>et al.</i> , "Preparation of Aminomethyl-Polystyrene Resin By Direct Amidomethylation", <i>Tetrahedron Lett.</i> , <u>42</u> :3795-3798 (1976)
FQ	Mitchell <i>et al.</i> , "A New Synthetic Route to <i>tert</i> -Butyloxycarbonylaminoacyl-4-(oxymethyl)phenylacetamidomethyl-resin, an Improved Support for solid-Phase Peptide Synthesis", <i>J. Org. Chem.</i> , <u>43(14)</u> :2845-2852 (1978)
FR	Mosbach, K., "AMP and NAD as "General Ligands" ", <i>Methods in Enzymol.</i> , <u>34</u> :229-243 (1974)
FS	Nicolaou <i>et al.</i> , "Radiofrequency Encoded Combinatorial Chemistry", <i>Angew. Chem. Int. Ed. Engl.</i> , <u>34(20)</u> :2289-2291 (1995)
FT	Nogrady, T., Book: <u>Medicinal Chemistry A Biochemical Approach</u> , Oxford University Press, New York, p.p., 388-392 (1985)
FU	Norrby, K., "Angiogenesis: new aspects relating to its initiation and control", <i>APMIS</i> , <u>105</u> :417-437 (1997)
FV	Oldenburg <i>et al.</i> , "Peptide Ligands for A Sugar-Binding Protein Isolated from a Random Peptide Library", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>89</u> :5393-5397 (1992)
FW	Ornitz <i>et al.</i> , "Elastase I Promoter Directs Expression of Human Growth Hormone and SV40 T Antigen Genes to Pancreatic Acinar Cells in Transgenic Mice", <i>Cold Spring Harbor Symp. Quant. Biol.</i> , <u>50</u> :399-409 (1986)

EXAMINER

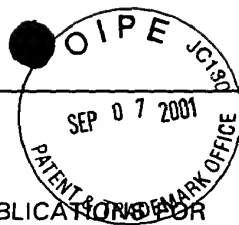
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STATEMENTAPPLICANT
MADISON et al.FILING DATE
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1614

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

FX	Ossowski, L., "In Vivo Invasion of Modified Chorioallantoic Membrane by Tumor Cells: the Role of Cell Surface-bound Urokinase", <i>J. Cell Biol.</i> <u>107</u> (6.1):2437-2445 (1988)
FY	Padwa et al., "Photoelimination of a β -Keto Sulfide with a Low-Lying π - π Triplet State", <i>J. Org. Chem.</i> , <u>36</u> (23):3550-2552 (1971)
FZ	Parmley et al., "Antibody-Selectable Filamentous fd Phage Vectors: Affinity Purification of Target Genes", <i>Genes</i> , <u>73</u> :305-318 (1988)
GA	PCR Protocols, Book: Chapter 37-38, "Amplification Of Ribosomal RNA Genes For Molecular Evolution Studies" and "Amplification And Direct Sequencing Of Fungal Ribosomal RNA Genes For Phylogenetics", Innis et al., Eds., Academic Press, Inc., San Diego, CA, p.p., 307-322 (1990)
GB	PIERCE Catalog, ImmunoTechnology Catalog & Handbook, 1992-1993
GC	Pinilla et al., "Review of the Utility of Soluble Combinatorial Libraries", <i>Biopolymers</i> , <u>37</u> :221-240 (1995)
GD	Pinilla et al., "Synthetic peptide combinatorial libraries (SPCLs)--identification of the antigenic determinant of beta-endorphin recognized by monoclonal antibody-3E7", <i>Gene</i> , <u>128</u> :71-76 (1993)
GE	Pinkert et al., "An albumin enhancer located 10 kb upstream functions along with its promoter to direct efficient, liver-specific expression in transgenic mice", <i>Genes & Development</i> , <u>1</u> :268-276 (1987)
GF	Pistor et al., "Expression of Viral Hemagglutinin On the Surface of <i>E. coli</i> ", <i>Klin. Wochenschr.</i> , <u>66</u> :110-116 (1988)
GG	Pittelkow et al., "New Techniques for the In Vitro Culture of Human Skin Keratinocytes and Perspectives on Their Use for Grafting of Patients With Extensive Burns", <i>Mayo Clinic Proc.</i> , <u>61</u> :771-777 (1986)
GH	Pollack et al., "Selective Chemical Catalysis by an Antibody", <i>Science</i> , <u>234</u> :1570-1572 (1986)
GI	Polverini, P.J., "The Pathophysiology Of Angiogenesis", <i>Crit. Rev. Oral. Biol. Med.</i> , <u>6</u> (3):230-247 (1995)
GJ	Powers et al., "Protein Purification by Affinity Binding to Unilamellar Vesicles", <i>Biotechnol. Bioengineering</i> , <u>33</u> :173-182 (1989)

EXAMINER

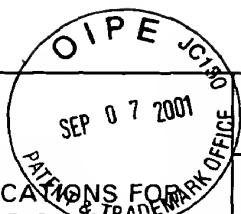
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MADISON et al.FILING DATE
February 2, 2001GROUP
1614

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

GK	Readhead <i>et al.</i> , "Expression of a Myelin Basic Protein Gene in Transgenic Shiverer Mice: Correction of the Dysmyelinating Phenotype", <i>Cell</i> 48 :703-712 (1987)
GL	Remington's <i>Pharmaceutical Sciences</i> , 17th Edition, Gennaro, A.R., Ed., Mack Publishing Company, Easton, Pa. (1985)
GM	Rheinwald, "Serial Cultivation of Normal Human Epidermal Keratinocytes", Chapter 15, <i>Meth. Cell Biol.</i> , Volume 21, 21A :229-254 (1980)
GN	Rigler <i>et al.</i> , "Fluorescence Correlations, Single Molecule Detection and Large Number Screening: Applications in Biotechnology", <i>J. Biotechnol.</i> , 41 :177-186 (1995)
GO	Roberts <i>et al.</i> , "Unusual Amino/Acids in Peptide Synthesis", <i>The Peptides. Analysis, Synthesis, Biology</i> , Chapter 6, 5 :341-449 (1983)
GP	Sambrook <i>et al.</i> , "Molecular Cloning", <i>A Laboratory Manual</i> , 2d Ed., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York (1989)
GQ	Sarin <i>et al.</i> , "Inhibition of acquired immunodeficiency syndrome virus by oligodeoxynucleoside methylphosphonates", <i>Proc. Natl. Acad. Sci. U.S.A.</i> 85 :7448-7451 (1988)
GR	Sarvetnick <i>et al.</i> , "Increasing the Chemical Potential of the Germ-Line Antibody Repertoire", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 90 :4008-4011 (1993)
GS	Sastry <i>et al.</i> , "Cloning of the immunological repertoire in <i>Escherichia coli</i> for generation of monoclonal catalytic antibodies: Construction of a heavy chain variable region-specific cDNA library", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 86 :5728-5732 (1989)
GT	Sato <i>et al.</i> , "A matrix metalloproteinase expressed on the surface of invasive tumour cells", <i>Nature</i> , 370 :61-65 (1994)
GU	Schultz, <i>et al.</i> , "The Combinatorial Library: A Multifunctional Resource", <i>Biotechnol. Prog.</i> , 12 (6):729-743 (1996)
GV	Scott <i>et al.</i> , "Searching for Peptide Ligands with an Epitope Library", <i>Science</i> , 249 :386-390 (1990)
GW	Scott <i>et al.</i> , "Random peptide libraries", <i>Curr. Opin. Biotechnol.</i> , 5 :40-48 (1994)
GX	Sears <i>et al.</i> , "Engineering Enzymes for Bioorganic Synthesis: Peptide Bond Formation", <i>Biotechnol. Prog.</i> , 12 :423-433 (1996)
GY	Senda <i>et al.</i> , "Treatment of Ulcerative Colitis with Camostat Mesilate, A Serine Protease Inhibitor", <i>Intern. Med.</i> , 32 (4):350-354 (1993)

EXAMINER

DATE CONSIDERED

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MADISON et al.FILING DATE
February 2, 2001GROUP
1614

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

GZ	Senter <i>et al.</i> , "Novel Photocleavable Protein Crosslinking Reagents And Their Use In The Preparation Of Antibody-Toxin Conjugates", <i>Photochem. Photobiol.</i> , <u>42(3)</u> :231-237 (1985)
HA	Shani, M., "Tissue-specific expression of rat myosin light-chain 2 gene in transgenic", <i>Nature</i> , <u>314</u> :283-286 (1985)
HB	Simon <i>et al.</i> , "Peptides: A modular approach to drug discovery", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>89</u> :9367-9371 (1992)
HC	Smith <i>et al.</i> , "Single-step purification of polypeptides expressed in <i>Escherichia coli</i> as fusions with glutathione S-transferase", <i>Gene</i> <u>67</u> :31-40 (1988)
HD	Stein <i>et al.</i> , "Physicochemical properties of phosphorothioate oligodeoxynucleotides", <i>Nucl. Acids Res.</i> <u>16(8)</u> :3209-3221 (1988)
HE	Stemple <i>et al.</i> , "Isolation of a Stem Cell for Neurons and Glia from the Mammalian Neural Crest", <i>Cell</i> <u>71</u> :973-985 (1992)
HF	Still, W.C., "Discovery of Sequence-Selective Peptide Binding by Synthetic Receptors Using Encoded Combinatorial Libraries", <i>Acc. Chem. Res.</i> , <u>29</u> :155-163 (1996)
HG	Sucholeiki, I., "Solid-Phase Photochemical C-S Bond Cleavage Of Thioethers-A New Approach To The Solid-Phase Production Of Non-Peptide Molecules", <i>Tetrahedron Ltrs.</i> , <u>35</u> :7307-7310 (1994)
HH	Swift <i>et al.</i> , "Tissue-Specific Expression of the Rat Pancreatic Elastase I Gene in Transgenic Mice", <i>Cell</i> <u>38</u> :639-646 (1984)
HI	Takeuchi <i>et al.</i> , "Reverse biochemistry: Use of macromolecular protease inhibitors to dissect complex biological processes and identify a membrane-type serine protease in epithelial cancer and normal tissue", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>96</u> :11054-11061 (1999)
HJ	Takeuchi <i>et al.</i> , "Cellular Localization of Membrane-type Serine Protease 1 and Identification of Protease-activated Receptor-2 and Single-chain Urokinase-type Plasminogen Activator as Substrates", <i>J. Biol. Chem.</i> , <u>275(34)</u> :26333-26342 (2000)
HK	Thompson <i>et al.</i> , "Synthesis and Applications of Small Molecule Libraries", <i>Chem. Rev.</i> , <u>96</u> :555-600 (1996)
HL	Tietze <i>et al.</i> , "Domino reactions for library synthesis of small molecules in combinatorial chemistry", <i>Curr. Opin. Chem. Biol.</i> , <u>2(3)</u> :363-371 (1998)

EXAMINER

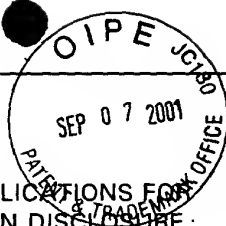
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Title: **NUCLEIC ACID MOLECULES ENCODING TRANSMEMBRANE SERINE PROTEASES, THE ENCODED PROTEINS AND METHODS BASED THEREON**

Mail date: 09/06/01

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
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1614

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

HM	Tramontano <i>et al.</i> , "Catalytic Antibodies", <i>Science</i> , <u>234</u> :1566-1570 (1986)
HN	Tyle, P., "Ionophoretic Devices for Drug Delivery", <i>Pharmaceutical Res.</i> , <u>3(6)</u> :318-326 (1986)
HO	Vassalli <i>et al.</i> , "Membrane proteases in focus", <i>Nature</i> , <u>370</u> :14-15 (1994)
HP	Vedejs <i>et al.</i> , "A Method for Mild Photochemical Oxidation; Conversion of Phenacyl Sulfides into Carbonyl Compounds", <i>J. Org. Chem.</i> , <u>49</u> :573-575 (1984)
HQ	Villa-Komaroff <i>et al.</i> , "A bacterial clone synthesizing proinsulin", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>75(8)</u> :3727-3731 (1978)
HR	Vu <i>et al.</i> , "Identification and Cloning of the Membrane-associated Serine Protease, Hepsin, from Mouse Preimplantation Embryos", <i>J. Biol. Chem.</i> , <u>272(50)</u> :31315-31320 (1997)
HS	Wang, S., "Solid Phase Synthesis of Protected Peptides via Photolytic Cleavage of the α -Methylphenacyl Ester Anchoring Linkage", <i>J. Org. Chem.</i> , <u>41(20)</u> :3258-3261 (1976)
HT	Weaner <i>et al.</i> , "Tritium Labeling Of <i>N</i> -Protected Amino Acids and Peptides Containing <i>O</i> -Alkyl-Tyrosyl Residues", Paper 22, <u>Synthesis and Applications of Isotopically Labelled Compounds</u> , Allen J., Ed., p.p. 137-140 (1994)
HU	Whitlock <i>et al.</i> , "Long-term culture of B lymphocytes and their precursors from murine bone marrow", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>79</u> :3608-3612 (1982)
HV	Wong, S.S., Book: <u>Chemistry of Protein Conjugation and Cross Linking</u> , CRC Press, Inc. (1993)
HW	Wong, S.S., Book: Chapter 12, "Conjugation of Proteins to Solid Matrices", <u>Chemistry of Protein Conjugation and Cross Linking</u> , CRC Press, Inc., p.p. 295-317 (1993)
HX	Wrighton <i>et al.</i> , "Small Peptides as Potent Mimetics of the Protein Hormone Erythropoietin", <i>Science</i> , <u>273</u> :458-464 (1996)
HY	Xu <i>et al.</i> , "The Crystal Structure of Bikunin from the Inter- α -Inhibitor Complex: A Serine Protease Inhibitor with Two Kunitz Domains", <i>J. Mol. Biol.</i> , <u>276</u> :955-966 (1998)
HZ	Yan <i>et al.</i> , "Corin, a Mosaic Transmembrane Serine Protease Encoded by a Novel cDNA from Human Heart", <i>J. Biol. Chem.</i> , <u>274(21)</u> :14926-14935 (1999)
IA	Yamaoka <i>et al.</i> , "Cloning and Characterization of the cDNA for Human Airway Trypsin-like Protease", <i>J. Biol. Chem.</i> , <u>273(19)</u> :11895-11901 (1998)

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IB	York <i>et al.</i> , "Combinatorial Mutagenesis of the Reactive Site Region in Plasminogen Activator Inhibitor I", <i>J. Biol. Chem.</i> , <u>266</u> (13):8595-8600 (1991)
IC	Zebedee <i>et al.</i> , "Human Combinatorial Antibody Libraries to Hepatitis B Surface Antigen", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>89</u> :3175-3179 (1992)
ID	Ziegler, J., "Angiogenesis Research Enjoys Growth Spurt in the 1990s", <i>J. Nat'l Cancer Institute</i> , <u>88</u> (12):786-788 (1996)
IE	Zuckermann <i>et al.</i> , "Efficient Method for the Preparation of Peptoids [Oligo(N-substituted glycines)] by Submonomer Solid-Phase Synthesis", <i>J. Am. Chem. Soc.</i> , <u>114</u> :10646-10647 (1992)
IF	Zuckermann <i>et al.</i> , "Identification of Highest-Affinity Ligands by Affinity Selection from Equimolar Peptide Mixtures Generated by Robotic Synthesis", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>89</u> :4505-4509 (1992)

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